

Recombinant Human CSTB, His-tagged

Cat. No. CSTB-31464TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human Stefin B, fused to His tag; 118 amino acids, 13 kDa.
Species	Human
Source	E.coli
Description	The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and kininogens. This gene encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins I, h and b. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1).
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50mM Sodium chloride, 20mM Tris, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MMCGAPSATQ PATAETQHIA DQVRSQLEEK ENKKFPVFKA VSFKSQVVAG TNYFIKVHVG DEDFVHLRVF QSLPHENKPL TLSNYQTNKA KHDELTYP
Sequence Similarities	Belongs to the cystatin family.
Full Length	Full L.

GENE INFORMATION

Gene Name	CSTB cystatin B (stefin B) [Homo sapiens]
Official Symbol	CSTB
Synonyms	CSTB; cystatin B (stefin B); EPM1, STFB; cystatin-B; CST6; PME;
Gene ID	1476
mRNA Refseq	NM_000100
Protein Refseq	NP_000091
MIM	601145
Uniprot ID	P04080
Chromosome Location	21q22.3

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Function

cysteine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity;
protease binding;

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